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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,111	07/03/2003	Daniel Dulitz	60963-0005-US	7663
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MORGAN, LEWIS & BOCKIUS, LLP.			MORRISON, JAY A	
2 PALO ALTO	SQUARE			
3000 EL CAMINO REAL			ART UNIT	PAPER NUMBER
PALO ALTO,	CA 94306		2168	

DATE MAILED: 04/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/614,111	DULITZ ET AL.			
Office Action Summary	Examiner	Art Unit			
·	Jay A. Morrison	2168			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 03 Ju	ly 2003.				
2a) This action is FINAL . 2b) ⊠ This	·				
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>12-20 and 37-58</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>12-20 and 37-58</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examine	•				
10)⊠ The drawing(s) filed on <u>03 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
 Certified copies of the priority documents have been received. 					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite			
) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/23/2004. 5) Notice of Informal Patent Application (PTO-152) 6) Other:					

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DETAILED ACTION

1. Claims 12-20 and 37-58 are pending.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 14 recites the limitation "the particular document" in lines 2-3 and 6. There is insufficient antecedent basis for this limitation in the claim. For purposes of examination, the Office will interpret "a representative document" as "the particular document".
- 4. Claim 14 recites the limitation "the requesting document" in lines 2 and 4. There is insufficient antecedent basis for this limitation in the claim. For purposes of examination, the Office will interpret "a newly crawled document" as "the requesting document".
- 5. Claim 15 recites the limitation "the particular document" in lines 3 and 5. There is insufficient antecedent basis for this limitation in the claim. For purposes of examination, the Office will interpret "a representative document" as "the particular document".
- 6. Claim 15 recites the limitation "the requesting document" in lines 3 and 4. There is insufficient antecedent basis for this limitation in the claim. For purposes of examination, the Office will interpret "a newly crawled document" as "the requesting document".

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- 7. Claim 17 recites the limitation "the requesting document" in line 2. There is insufficient antecedent basis for this limitation in the claim. For purposes of examination, the Office will interpret "a newly crawled document" as "the requesting document".
- 8. Claim 52 recites the limitation "the particular document" in lines 2-3 and 6. There is insufficient antecedent basis for this limitation in the claim. For purposes of examination, the Office will interpret "a representative document" as "the particular document".
- 9. Claim 52 recites the limitation "the requesting document" in lines 2 and 4. There is insufficient antecedent basis for this limitation in the claim. For purposes of examination, the Office will interpret "a newly crawled document" as "the requesting document".
- 10. Claim 53 recites the limitation "the particular document" in lines 3 and 5. There is insufficient antecedent basis for this limitation in the claim. For purposes of examination, the Office will interpret "a representative document" as "the particular document".
- 11. Claim 53 recites the limitation "the requesting document" in lines 3 and 4. There is insufficient antecedent basis for this limitation in the claim. For purposes of examination, the Office will interpret "a newly crawled document" as "the requesting document".
- 12. Claim 55 recites the limitation "the requesting document" in line 2. There is insufficient antecedent basis for this limitation in the claim. For purposes of examination, the Office will interpret "a newly crawled document" as "the requesting document".

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Claim Rejections - 35 USC § 102

13. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

14. Claims 12-17,40-48 and 50-55 rejected under 35 U.S.C. 102(e) as being anticipated by Meyerzon et al. ('Meyerzon' hereinafter) (Patent Number 6,547,829).

As per claim 12, Meyerzon teaches

"constructing a plurality of tables, each table corresponding to a portion of a document address space" (builds new index based on documents, column 4, lines 43-60)", storing information identifying documents having a same document identifier and each identified document having an associated document rank" (column 2, lines 3-16);

"receiving a newly crawled document, such document characterized by a document identifier and a document rank" (column 2, lines 3-16);

"reading information stored in the plurality of tables to identify a set of documents, if any, sharing the document identifier of the newly crawled document" (column 9, lines 18-29);

"updating the information stored in at least one of the tables in accordance with the document ranks of the identified set of documents and the newly crawled document" (column 2, lines 3-16);

"and determining a representative document for the newly crawled document and the identified set of documents" (column 9, lines 32-40).

As per claim 13, Meyerzon teaches

"information identifying the identified set of documents, including a particular document serving as a representative document of the identified set, is stored in one or more tables" (column 9, lines 32-40).

As per claim 14, Meyerzon teaches

"comparing the document rank of the requesting document with that of the particular document from the identified set in accordance with a set of predefined comparison criteria; selecting the requesting document as the representative document if the set of predefined comparison criteria are met" (column 5, lines 20-40);

"and keeping the particular document as the representative document if the set of predefined comparison criteria is not met" (column 2, lines 32-40).

As per claim 15, <u>Meyerzon</u> teaches

"the set of predefined comparison criteria comprise at least two parameters, one parameter for comparison with an absolute difference of document ranks between the

requesting document and the particular document, and another parameter for comparison with a ratio of document ranks between the requesting document and the particular document" (column 5, lines 20-40).

As per claim 16, Meyerzon teaches

"the updating includes inserting information identifying the newly crawled document into the at least one table only when a predefined insertion condition is satisfied" (column 9, lines 32-40).

As per claim 17, Meyerzon teaches

"the predefined insertion condition is that the document rank of the requesting document is higher than the document rank of at least on document in the identified set of documents" (column 2, lines 32-40).

As per claim 40, Meyerzon teaches

"constructing a plurality of data structures for storing information of documents" (builds new index based on documents, column 4, lines 43-60) ", each document characterized by a document identifier and score information, the information stored in the plurality of data structures include the document identifier and score information for each document" (URL in history table and CID in separate CID table, column 2, lines 64 through column 3, line 22);

"receiving a requesting document in association with its document identifier and score information" (column 2, lines 3-16);

"selecting from the plurality of data structures a set of documents, if any, sharing the same document identifier as the requesting document" (column 9, lines 18-40);

"generating a new set of documents from the requesting document and the selected set of documents in accordance with their score information" (column 2, lines 3-16);

"identifying a representative document of the new set of documents" (column 9 lines 32-40).

As per claim 41, Meyerzon teaches

"the score information for each document includes a document rank metric" (column 2, lines 3-16).

As per claim 42, Meyerzon teaches

"the plurality of data structures include a data structure for storing information of multiple sets of documents, each set of documents sharing a same document content" (column 2, line 64 through column 3, line 22).

As per claim 43, Meyerzon teaches

"the plurality of data structures include a data structure for storing information of multiple sets of documents, each set of documents sharing a same document address" (storage location, column 2, line 64 through column 3, line 22).

As per claim 44, Meyerzon teaches

"the document identifier is a fixed length fingerprint of document content of a document characterized by the document identifier" (content identifier, column 2, line 64 through column 3, line 22).

As per claim 45, Meyerzon teaches

"the document identifier is a fixed length fingerprint of an address of a document characterized by the document identifier" (content identifier, column 2, line 64 through column 3, line 22).

As per claim 46, Meyerzon teaches

"sorting the requesting document and the selected set of documents in accordance with a metric included in the score information of the requesting document and selected set of documents; and selecting a new set of documents, having at most a predefined number of documents from the requesting document and the selected set of documents based on the sorting result" (column 2, lines 3-16).

As per claim 47, Meyerzon teaches

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"the score information for each document includes a document rank" (column 2, lines 3-16);

"comparing the document rank of the requesting document with that of a particular document from the selected set of documents in accordance with a set of predefined comparison criteria, wherein the particular document was previously determined to be the representative document for the selected set of documents" (column 5, lines 20-40);

"selecting the requesting document as the representative document for the new set of documents if the set of predefined comparison criteria are met" (column 2, lines 32-40);

"and keeping the particular document as the representative document for the new set of documents if the set of predefined comparison criteria is not met" (column 2, lines 32-40).

As per claim 48, Meyerzon teaches

"the set of predefined comparison criteria comprise at least two parameters, one parameter for comparison with an absolute difference of document rank between the requesting document and the particular document, and another parameter for comparison with a ratio of document rank between the requesting document and the particular document" (column 8, lines 39-61).

As per claims 50-55,

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These claims are rejected on grounds corresponding to the arguments given above for rejected claims 12-17 and are similarly rejected.

Claim Rejections - 35 USC § 103

- 15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 16. Claims 18-20, 37-39 and 56-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Meyerzon et al. ('Meyerzon' hereinafter) (Patent Number 6,547,829) in view of Rujan et al. ('Rujan' hereinafter) (Patent Number 6,976,207).

As per claim 18, Meyerzon teaches

"constructing a plurality of tables, each table corresponding to a segment of a document address space, storing information identifying documents having a same document identifier and each identified document having an associated document rank, wherein the plurality of tables comprise N+1 tables where N is an integer greater than one, wherein the N+1 tables comprise N tables, each generated during a respective phase of a set of N crawling phases, and a current table generated during a current one of the N crawling phases wherein an oldest one of the N tables was generated during a previous instance of the current crawling phase" (column 4, lines 43-60);

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"receiving a newly crawled document, such document characterized by a document identifier and a document rank" (column 2, lines 3-16);

"reading information stored in the N+1 tables to identify a set of documents, if any, sharing the document identifier of the newly crawled document" (column 4, lines 43-60);

"updating the information stored in the current table in accordance with the document rankings of the identified set of documents and the newly crawled document" (column 4, line 43 through column 5, line 13);

"determining a representative document for the newly crawled document and the identified set of documents" (column 2, lines 32-40);

"and upon completion of the current crawling phase, ... of the N tables" (column 5, lines 1-20).

Meyerzon does not explicitly indicate "retiring the oldest one".

However, Rujan discloses "retiring the oldest one" (column 15, lines 20-25).

It would have been obvious to one of ordinary skill in the art to combine Meyerzon and Rujan because using the steps of "retiring the oldest one" would have given those skilled in the art the tools to create an effective information storage and retrieval system. This gives the user the advantage of keeping a limited amount of historic information.

As per claim 19, Meyerzon teaches

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"the reading comprises reading from a merged table that stores information from a plurality of the N tables, and reading from the current table" (column 4, lines 43-60).

As per claim 20, Meyerzon teaches

"information identifying the identified set of documents, including a particular document serving as a representative document of the identified set, is stored in one or more tables" (column 9 lines 32-40).

As per claims 37-39,

These claims are rejected on grounds corresponding to the arguments given above for rejected claims 18-20 and are similarly rejected.

As per claims 56-58,

These claims are rejected on grounds corresponding to the arguments given above for rejected claims 18-20 and are similarly rejected.

17. Claim 49 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Meyerzon et al. ('Meyerzon' hereinafter) (Patent Number 6,547,829) in view of Lambert

et al. ('Lambert' hereinafter) (Publication Number 2002/0038350).

As per claim 49,

Meyerzon does not explicitly indicate "a document is a temporary redirect page comprising a document content, a source document address, and a target document address".

However, <u>Lambert</u> discloses "a document is a temporary redirect page comprising a document content, a source document address, and a target document address" (paragraph [0057]).

It would have been obvious to one of ordinary skill in the art to combine

Meyerzon and Lambert because using the steps of "a document is a temporary redirect page comprising a document content, a source document address, and a target document address" would have given those skilled in the art the tools to accurately represent web sites and the content that they hold. This gives the user the advantage of recognizing web page structure.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jay A. Morrison whose telephone number is (571) 272-7112. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached on (571) 272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jay Morrison

Tim Vo TC2100

PRIMARY DOWNER